Linda Pardy (858) 627-3932 <PARDL@RB9.SWRCB.CA.GOV> and

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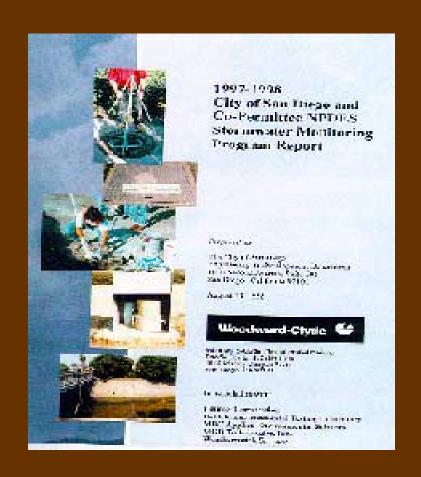
www.swrcb.ca.gov/rwqcb9

Resolution No. R9-2002-0123

Total Maximum Daily Load
(TMDL)
for Diazinon in
Chollas Creek Watershed
San Diego County



Toxicity in Storm Water





Toxicity testing

- Water flea
- Freshwater minnow







 TIE to determine primary constituents causing toxicity in stormwater samples

Diazinon? ?

Copper? Lead?

Zinc?

Chlorpyrifos?

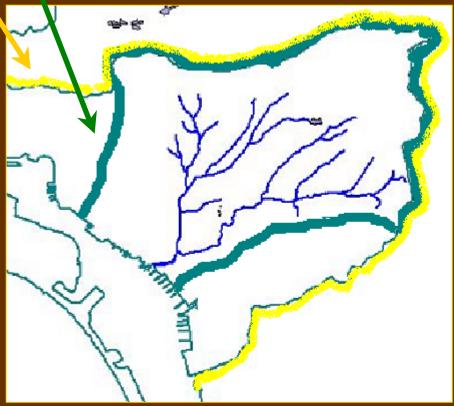


Clean Water Act,
 Section 303(d) list

 Requires Regional Board to develop a TMDL

Pueblo San Diego, Chollas Creek watershed





Concentration-based TMDL

- Numeric Targets =
 California Department of Fish and Game
 Water Quality Criteria for protection of freshwater aquatic life from diazinon
 - Acute criterion = 0.08 ug/L
 - Chronic criterion = 0.05 ug/L

- 10% Margin of Safety
- Waste Load and Load Allocations are applied equally to all diazinon discharge sources
 - Allocations 90% numeric targets
 - 0.072 ug/L acute exposure
 - 0.045 ug/L chronic exposure

Scientific peer review



TMDL Implementation Plan

- (1) USEPA diazinon phase-out
- (2) Modification of MS4 Permit
- (3) Reduce diazinon discharges



TMDL Implementation Plan

- (3) Reduce Diazinon discharges
 - (a) Enforce existing local ordinances & adopt new legal authority
 - (b) Diazinon Toxicity Control Plan
 - (c) Focused public outreach/ education program on diazinon waste load reduction
 - (d) Diazinon source analysis



TMDL Implementation Plan

- (4 & 5) Compliance MS4 permit & existing Basin Plan waste discharge prohibitions
- (6) Enforcement authority of Regional Bd
- (7) Modification of other existing WDRs
- (8) Adopt new WDRs or NPDES permits
- (9) Additional investigations & reports pursuant to Water Code Section 13267



TMDL Implementation Plan

(10) Monitoring Plan

- Assess effectiveness of TMDL
- Assess implementation measures
 - Water Quality objectives
 - Beneficial uses

Environmental Review

Economic Consideration

- Interagency collaboration critical for TMDL implementation plan success
- Cost/Benefit analysis not required
- Only need to estimate cost of reasonably foreseeable method of compliance with requirements of TMDL

- Public participation
 - March 17, 1999
 - August 3, 1999
 - December 17, 1999
 - May 17, 2002
- Public comment encouraged
 - Tentative public hearing on June 12, 2002

- Next Steps for TMDL
- State Water Resources
 Control Board (SWRCB)
- Office of Administrative Law (OAL)
- US Environmental Protection Agency (USEPA)



General comments or questions

Public input

Technical TMDL

- Problem Statement
- Numeric Target
- Source Analysis
- Load Capacity
- Allocation
- Margin of Safety
- Linkage Analysis
- Seasonal Variation & Critical Conditions

Tentative Public Hearing

<u>June 12, 2002</u>

California Regional Water Quality Control Board, San Diego Region 9174 Sky Park Court, Suite 100 San Diego, CA 92123-4340

www.swrcb.ca.gov/rwqcb9